

Reconstitution

Russell 3000® Index - Additions

Company	Symbol	Sector
ABEONA THERAPEUTICS INC	ABEO	Health Care
ACHAOGEN INC	AKAO	Health Care
ADVANCED EMISSIONS SLTNS	ADES	Producer Durables
AKOUSTIS TECHNOLOGIES	AKTS	Technology
ALTERYX INC	AYX	Technology
ANTARES PHARMA INC	ATRS	Health Care
APPROACH RESOURCES INC	AREX	Energy
ARCH COAL INC	ARCH	Energy
ARDAGH GROUP SA	ARD	Materials & Processing
ASB BANCORP INC NC	ASBB	Financial Services
ASSEMBLY BIOSCIENCES INC	ASMB	Health Care
AXT INC	AXTI	Technology
BANK COMM HLDGS	BOCH	Financial Services
BASIC ENERGY SERVICES	BAS	Energy
BCB BANCORP INC	BCBP	Financial Services
BEASLEY BROADCAST GROUP	BBGI	Consumer Discretionary
BG STAFFING INC	BGSF	Producer Durables
BIOHAVEN PHARMACEUTICAL	BHVN	Health Care
BLACK DIAMOND INC	BDE	Consumer Discretionary
BONANZA CREEK ENER INC	BCEI	Energy
C&J ENERGY SERVICES INC	CJ	Energy
CADENCE BANCORP	CADE	Financial Services
CADIZ INC	CDZI	Consumer Staples
CALITHERA BIOSCIENCES	CALA	Health Care
CARDCONNECT CORP	CCN	Financial Services
CARVANA CO	CVNA	Consumer Discretionary
CASCADIAN THERAPEUTICS	CASC	Health Care
CASTLE BRANDS INC	ROX	Consumer Staples
CATALYST PHARMACEUTICALS	CPRX	Health Care
CENTENNIAL RESOURCE DEV	CDEV	Energy
CENTRUE FINANCIAL CORP	CFCB	Financial Services
CHERRY HILL MORTGAGE INV	CHMI	Financial Services
CIVISTA BANCSHARES INC	CIVB	Financial Services
CLOUD PEAK ENERGY INC	CLD	Energy
CLOUDERA INC	CLDR	Technology
COMMERCE UNION BANCSHARE	CUBN	Financial Services
COMMERCIAL VEH GROUP INC	CVGI	Producer Durables
COMMUNITY BANKERS TRUST	ESXB	Financial Services
COMMUNITY FINL CORP MD	TCFC	Financial Services
CONATUS PHARMACEUTICALS	CNAT	Health Care
CORBUS PHARMACEUTICALS	CRBP	Health Care
CORE MOLDING TECHN	CMT	Materials & Processing
CORIUM INTL INC	CORI	Health Care
CYBEROPTICS CORP	CYBE	Technology
DASEKE INC	DSKE	Producer Durables
DNB FINL CORP	DNBF	Financial Services
EAGLE BULK SHIPPING INC	EGLE	Producer Durables
EASTERN CO	EML	Materials & Processing
ELEVATE CREDIT INC	ELVT	Financial Services

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ELLINGTON RESIDENTIAL	EARN	Financial Services
EMERALD EXPOSITIONS	EEX	Consumer Discretionary
ENERGY XXI GULF COAST	EXXI	Energy
ENTEGRA FINANCIAL CORP	ENFC	Financial Services
ENVIROSTAR INC	EVI	Producer Durables
EVANS BANCORP INC	EVBN	Financial Services
EVERI HOLDINGS INC	EVRI	Financial Services
FARMERS & MERCHANTS BNCP	FMAO	Financial Services
FATE THERAPEUTICS INC	FATE	Health Care
FIRST BANCSHARES INC MS	FBMS	Financial Services
FIRST GUARANTY BANCSHARE	FGBI	Financial Services
FLOOR & DECOR HOLDINGS	FND	Consumer Discretionary
FNB BANCORP	FNBG	Financial Services
FONAR CORP	FONR	Health Care
FOSTER L B CO	FSTR	Materials & Processing
GARDNER DENVER HOLDINGS	GDI	Producer Durables
GASTAR EXPL INC	GST	Energy
GENCO SHIPPING & TRADING	GNK	Producer Durables
GENOCEA BIOSCIENCES INC	GNCA	Health Care
GSI TECHNOLOGY	GSIT	Technology
GUARANTY BANCSHARES INC	GNTY	Financial Services
GULF ISLAND FABRICATION	GIFI	Energy
HALCON RESOURCES CORP	HK	Energy
HALLADOR ENERGY CO	HNRG	Energy
HAMILTON LANE INC	HLNE	Financial Services
HEALTH INS INNOVATIONS	HIIQ	Financial Services
HOSTESS BRANDS INC	TWNK	Consumer Staples
HOWARD BANCORP INC	HBMD	Financial Services
HUDSON TECHNOLOGIES INC	HDSN	Producer Durables
HUTTIG BUILDING PRODUCTS	HBP	Materials & Processing
IHS MARKIT LTD	INFO	Technology
INSPIRED ENTERTAINMENT	INSE	Consumer Discretionary
INTERNAP CORPORATION	INAP	Technology
INTEVAC INC	IVAC	Technology
INTREPID POTASH INC	IPI	Materials & Processing
INVESTAR HOLDING CORP	ISTR	Financial Services
ITERIS INC	ITI	Technology
JERNIGAN CAP INC	JCAP	Financial Services
JJILL INC	JILL	Consumer Discretionary
KEMET CORP	KEM	Technology
KEY ENERGY SERVICES INC	KEG	Energy
KINDRED BIOSCIENCES INC	KIN	Health Care
KINGSTONE COS INC	KINS	Financial Services
KKR REAL ESTATE FINANCE	KREF	Financial Services
KURA ONCOLOGY INC	KURA	Health Care
LANTHEUS HOLDINGS INC	LNTH	Health Care
LEAF GROUP LTD	LFGR	Technology
LILIS ENERGY INC	LLEX	Energy
LIVANOVA PLC	LIVN	Health Care

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LMI AEROSPACE INC	LMIA	Producer Durables
MADRIGAL PHARMACEUTICALS	MDGL	Health Care
MALVERN BANCORP INC	MLVF	Financial Services
MATINAS BIOPHARMA HLDG	MTNB	Health Care
MAUI LAND & PINEAPPLE CO	MLP	Financial Services
MICROVISION INC	MVIS	Technology
MIDDLEFIELD BANC CORP	MBCN	Financial Services
MIDSOUTH BANCORP INC	MSL	Financial Services
MIDSTATES PETROLEUM CO	MPO	Energy
MIRAGEN THERAPEUTICS	MGEN	Health Care
MOCON INC	MOCO	Producer Durables
MULESOFT INC	MULE	Technology
NAPCO SEC TECHNOLOGIES	NSSC	Producer Durables
NAVIOS MARITIME HOLDINGS	NM	Producer Durables
NCS MULTISTAGE HOLD	NCSM	Energy
NEXEO SOLUTIONS INC	NXEO	Materials & Processing
NI HOLDINGS INC	NODK	Financial Services
NORTHEAST BANCORP	NBN	Financial Services
NORTHWEST PIPE CO	NWPX	Materials & Processing
NORWOOD FINANCIAL CORP	NWFL	Financial Services
NOVELION THERAPEUTICS	NVLN	Health Care
NXP SEMICONDUCTORS NV	NXPI	Technology
NYMOX PHARMACEUTICAL	NYMX	Health Care
OCONEE FEDERAL FINANCIAL	OFED	Financial Services
OHIO VY BANC CORP	OVBC	Financial Services
OKTA INC	OKTA	Technology
OLD POINT FINL CORP	OPOF	Financial Services
OMINTO INC	OMNT	Technology
ONCOCYTE CORPORATION	OCX	Health Care
OOMA INC	OOMA	Technology
OVID THERAPEUTICS INC	OVID	Health Care
PARKE BANCORP INC	PKBK	Financial Services
PCM INC	PCMI	Technology
PCSB FINANCIAL CORP	PCSB	Financial Services
PEABODY ENERGY CORP	BTU	Energy
PENDRELL CORP	PCO	Technology
PENN VIRGINIA CORP	PVAC	Energy
PEOPLES BANCORP N C INC	PEBK	Financial Services
PIERIS PHARMACEUTICALS	PIRS	Health Care
PIXELWORKS INC	PXLW	Technology
PRESIDIO INC	PSDO	Technology
PROPETRO HOLDING CO	PUMP	Energy
PRUDENTIAL BANCORP INC	PBIP	Financial Services
PULSE BIOSCIENCES INC	PLSE	Health Care
PURECYCLE CORP	PCYO	Utilities
QUANTUM CORP	QTM	Technology
QUOTIENT LIMITED	QTNT	Health Care
R1 RCM INC	RCM	Health Care
RCI HOSPITALITY HLDGS	RICK	Consumer Discretionary

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RECRO PHARMA INC	REPH	Health Care
RESOLUTE ENERGY CORP	REN	Energy
REVOLUTION LIGHTING TECH	RVLT	Technology
RGC RES INC	RGCO	Utilities
RIVERVIEW BANCORP INC	RVSB	Financial Services
ROCKET FUEL INC	FUEL	Technology
ROSEHILL RESOURCES INC	ROSE	Energy
SAFE BULKERS INC	SB	Producer Durables
SANDRIDGE ENERGY INC	SD	Energy
SCHNEIDER NATIONAL INC	SNDR	Producer Durables
SELECT ENERGY SERVICES	WTTR	Energy
SENSATA TECHNOLOGIES	ST	Producer Durables
SHILOH INDUSTRIES INC	SHLO	Materials & Processing
SIENTRA INC	SIEN	Health Care
SILVERBOW RESOURCES	SBOW	Energy
SIMULATIONS PLUS INC	SLP	Technology
SMARTFINANCIAL INC	SMBK	Financial Services
SOLARIS OILFIELD	SOI	Energy
STARTEK INC	SRT	Producer Durables
STERIS PLC	STE	Health Care
STERLING CONSTRUCTION CO	STRL	Producer Durables
STONE ENERGY CORP	SGY	Energy
STRONGBRIDGE BIOPHARMA	SBBP	Health Care
SUNSHINE BANCORP INC	SBCP	Financial Services
SUTHERLAND ASSET MGMT	SLD	Financial Services
TELLURIAN INC	TELL	Energy
TIMBERLAND BANCORP INC	TSBK	Financial Services
TOCAGEN INC	TOCA	Health Care
TRANSCONTINENTAL REALTY	TCI	Financial Services
TUCOWS INC	TCX	Technology
TWIN DISC INC	TWIN	Producer Durables
TWO RIVER BANCORP	TRCB	Financial Services
ULTRA PETROLEUM CORP	UPL	Energy
UNITED SECURITY BANC	UBFO	Financial Services
UNITY BANCORP INC	UNTY	Financial Services
UPLAND SOFTWARE INC	UPLD	Technology
URANIUM ENERGY CORP	UEC	Materials & Processing
VBI VACCINES INC	VBIV	Health Care
VERITONE INC	VERI	Technology
VERSO CORPORATION	VRS	Materials & Processing
VISTRA ENERGY CORP	VST	Utilities
VIVEVE MEDICAL INC	VIVE	Health Care
VOXX INTERNATIONAL CORP	VOXX	Consumer Discretionary
WARRIOR MET COAL INC	HCC	Energy
WECAST NETWORK INC	WCST	Consumer Discretionary
WILLDAN GROUP INC	WLDN	Producer Durables
WILLIS TOWERS WATSON PLC	WLTW	Financial Services
YEXT INC	YEXT	Technology
ZYNERBA PHARMACEUTICALS	ZYNE	Health Care



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